# The Past, Present and Future of the Florida Everglades

-By DANIEL A. SIMMONS, Private Secretary to Governor Broward-

ordinary swamp, we here have vast mum is reached.

open sunny spaces containing millions
of acres.

as the importance and largeness of the subject will permit.

Origin of Everglades.

Some time during the Pliocene Age, which geologists tell us ended anywhere from three hundred thousand years ago, that part of the earth's interior lying beneath what is now the Everglades cooled and shrunk, causing the surface to bulge upward, very much in the same manner as the shrinking of an apple during the process of paking causes its surface to become wrinkled and corrugated. Prior to this bulging upward this area was oining together the deeper waters of he Gulf of Mexico and the Atlantic Ocean. During that age the water of now with carbonate of lime, which had been precipitated here (partly by the four thousand square miles. nce of fresh and salt water and partly by the action of marine insects) into an extensive bed of coral-ine limestone. The agitation of the shallow water under the action of the ind stirred up and dissolved this limestone until the water was opales-cent with it. Then, during periods of calm, and in sheltered places behind projecting reefs, the lime held in suspension settled to the bottom in the form of minute globules. The dissolved lime, impelled by the law of affinity, gathered around these tiny globles, enlarging them and cementing them together into what geologists call collic limestone. "Oolitic" means, literally, like unto fish-roe, and this rock is so called because it is com-

No man witnessed these things. Of birds, beasts and fishes there was no searcity, but man had not yet come to ssume dominion over them. God had not yet created anything in His im-use, and although the garden between the Tigris and the Euphrates had been laid out, its gir was yet too noxious for man to breathe. In attempting to read the history of that age we must depend solely upon Nature's own chi-rography, and many parts of it are so illegibly written that geologists must allow a wide margin for speculation.

I shall not attempt to give the legal and political history of the project for reclaiming this territory, but shall pro-ceed at once to tell of actual results. In the matter of dates, for instance, a few hundred thousand years more or less are not seriously considered in

arriving at a final conclusion. This region was cast upward to a mean height of about eight feet above the level of the sea, with a rock rim several feet higher bordering the water from which it had arisen. This rim was lowest at the extreme south, and most of the salt water probably drained of the sa out through the same channels; so river at the point where the Ever- court of appeals, it will mean a great should probably be accorded the cour-

economy, and she at once began the work of setting things in order. The seeds and scions of aquatic plants and grasses came from somewhere (probable states) and a quarter of a mile wide, spilled down the Kissipmee giver and a constant their about ten thousand will pay all the expense of reciamation, and the trustees have ample au therity to use it for that purpose.

What the Future Holds. grasses came from somewhere (probably down the Kissimmee river and a there from God only knows where. It few other insificant stream from the is situated about six and a half miles out in the muck, and rises to a height finding a genial environment in the of a little more than twenty-five feet. There are numerous sand strata in its

and western borders of the lake again builded upward. But we do know that the state, this kind rarely ever breeding the Pleistocene Age, which ended twenty-five or thirty thousand years and. They will be continued toward and is likewise the element is which is in the soil. They are the chemical tains a high percentage of nitrogen, and a few years ago it was thought that the key to this treasure-house that the key to this treasure-house that the possible in the soil. They are the chemical tains a high percentage of nitrogen, and a few years ago it was thought that the key to this treasure-house that the phosphoric acid must be in the soil. They are the chemical tains a high percentage of nitrogen, and a few years ago it was thought that the key to this treasure-house that the phosphoric acid must be in the soil. They are the chemical tains a high percentage of nitrogen, and a few years ago it was thought that the key to this treasure-house that the phosphoric acid must be in the soil. They are the chemical tains a high percentage of nitrogen, and a few years ago it was thought that the key to this treasure-house that the phosphoric acid must be in the soil. They are the chemical tains a high percentage of nitrogen, and a few years ago it was thought the the soil in the property in the soil in the soil

for it is the one thing which modifies southwest, and New River on the east the common conception of "swampy." being notable examples. During a The ordinary swamp is anything else much longer period the nitrogen-fixing than attractive; therefore, I am anx-lous that you should realize that the Everglades are different from the ordi-in muck. The erosion of channels has nary swamp. The muck is there and is covered with shallow water, but instead of trees we find tall grass. has raised the land from four to Countless slimy reptiles creep through the marshes, and millions of food fishes swim in the shallow water; but instead of the uncertain gloom of the ing toward the center until the maximum toward the center until the center until the maximum toward the center until t

The Result of Processes. As a result of these processes we How did the Everglades come into have the Everglades a practically existence, and of what use may they level plain with a surface area of be to mankind? These are questions which have been asked thousands of times over, and it is my intention to here answer these questions as briefly as the importance and largeness of the subject will permit.

ably require a long string of milleniums, but nature is not at all parsimonious with milleniums. A generation or two, or even a few hundred care of itself.

years, would probably make no very
uoticeable change, but the erosion of

If onyone ha the outflewing water would finally so cut away the impounding rim that the great reservoir would empty itself into the sea. In all parts of the world there are vast fertile plains which were first seas, then lakes, and finally dry land. The Everglades is one such plain in the making, and it is now at the beginning of the transition from lake to dry land. But Governor Broward wills that Nature shall be that the people of this generation shall come into full possession of the treasure which she has been hoarding for so many incalculable ages.

The Work of Reclamation Early in July ,1906, the Everglades, one of the most powerful dipper dredges that had ever been constructthat, in course of time, the entire region became a vast shallow lake of fresh water covering about four thousand square miles, having a solid limestone bed, and dotted here and there with sand-bars.

This unproductive waste did not conform to Nature's plan of strict course of time, the entire region became a vast shallow lake of the eroded channel to its end, also passed out into the open glades, heading in a southwesterly direction and stone bed, and dotted here and there with sand-bars.

This unproductive waste did not conform to Nature's plan of strict year, and then about ten thousand conform to Nature's plan of strict year, and then about ten thousand of the Ever-saving to the laternal Improvement from which the expense is now being paid. But whether the decision of the appellate court is favorable or adverse, the work will be pushed to completion at the earliest possible date. The state's part of the land will pay all the expense of reclamation of the probably be accorded the courties saving to the laternal Improvement from which the expense is now being paid. But whether the decision of the appellate court is favorable or adverse, the work will be pushed to completion at the earliest possible with sand-bars.

This unproductive waste did not conform to Nature's plan of strict year, and then about ten thousand will have been nerman agreat saving to the laternal Improvement Fund, from which the expense is now being paid. But whether the decision of the appellate court is favorable or adverse, the work will be pushed to completion at the earliest possible as rich as any that I have ever seen, and the trustees have ample automatic forms and there is saving to the laternal Improvement Fund. But the expense is now being paid. But whether the decision of the appellate court is favorable or plantation there:

"My surprise was and there where the expense is now being paid. But whether the decision of the appellate court is favorable or plantation there:

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DANIEL A. SIMMONS, Private Secretary to Governor Brow

inflow of rivers and creeks counteracted by the outflow of the canals, the natural precipitation will take Expense Paid From Proceeds.

If onyone has been deceived by the newspaper which now purrs and gurgles softly like the flow of oil from a

There are many people, even in ago, the rock rim was made higher plorida, who know practically nothing and the muck-choked channels to the southward permanent powerful steed of the sevens are commonly known as the Pforida Everglades. It is generally known throughout the United States that the name is applied to a part of off state, and those who have the state of the southward permanent of the southward permanent powerful steed dredge of the state and those who have the state of the southward permanent powerful steed dredge of the southward permanent powerful steed dredge of the southward the surrounding country had definited the summits of the southward state of the southward permanent powerful steed dredge of the word "everglade," any standard the southward permanent powerful steed dredge of the word "everglade," any standard the southward permanent powerful steed dredge of the word "everglade," any standard the southward permanent powerful steed dredge of the word "everglade," any standard the southward permanent powerful steed dredge of the word "everglade," any standard the southward permanent powerful steed dredge of the word "everglade," any standard the southward permanent powerful steed dredge of the word "everglade," any standard the southward permanent powerful steed dredge of th

analyses of Everglades muck taken from widely separated places, and they vary but little. An average analysis, obtained by dividing the sum of six, obtained by dividing the sum of leisurely harvested all through the leisurely harvested all through the they vary but little. An average enally sis, obtained by dividing the sum of all of them by eleven, gives 2.21 per cent nitrogen. Nitrogen has an average commercial value of fifteen cents per pound, which means that the average Everglades muck is worth \$6.63 per ton. Think of it for a moment! More than four thonsand square miles of level soil in a sub-tropical climate, lying from three to twenty feet thick on a bed of soild stone, and having a commercial value of more than six dollars per ton! Can you wonder that a nation is interested in its reclamation. This soil is slightly deficient in potash and phospheric acid and, while enormous crops may be grown without the addition of any fertilizer whatever, experience has demonstrated that the addition of these cheap chemicals is a paying investment. The raw soft phosphate (which is the kind needed on this soil) abounds in the region just a few miles northward, and can be laid down at Ft. Lauderdale for about five dollars per tom. Sufficient potash to balance this acid can be had for about the same price.

The possibilities of this combination of the entire tract. Even now a large sugar company is cutting its own lateral canals, and hopes to

tion of soil, moisture and climate are practically unlimited; but it is the opinion of Governor Broward, and ot many others who are acquainted with the situation, that the growth of sugar cane and the manufacture of sugar cane and the manufacture of sugar cane and the manufacture of sugar cane. main for all time, an impassable bar- been lowered five or six feet it will will be the chief industries. During rier against the frost which might otherwise sweep down in disaster upon the tender vegetation to the southward. Lake Okeechobee is really a part of the Everglades, but its face of the lake may be lowered ten while we were consultable to the lake may be lowered ten while we were area is not included in the estimate of four thousand square miles.

The water on the Everglades is merely the outlying water of Lake Okeechobee, and, as its surface is something like twenty-one feet above the level of the sea at mean low tide the forces of nature would eventually few minutes, and when the surplus and naval water of the lake may be lowered ten while we were consuming this production, we imported 2,170,899 tons of are completed the state will also cut a number of lateral canals, but these sum of \$92,806,253, besides freight and import duties. To key this amount of the level of the sea at mean low tide that a heavy rainfall disappears in a few thousand dollars of the forces of nature would eventually few minutes, and when the surplus same time, for all our exports of meat water has been drained off, and the products, corn, wheat and naval stores combined. If this sum of money were equally distributed among the people of the United States, each man woman and child of every race and color would receive nearly two dollars. The Everglades are capable of keeping all that money at home! Growing of Sugar Cane.

Louisiana produces more cane suga pipe, and now roars and rumbles and than all the other states of the Union shricks like a sea-going railway train, combined, and certainly has some very let him here take knowledge that the excellent cane lands. The average expense of all this work has been yield of cane in that state is twenty paid from the proceeds of the land. five tons per acre, and the average The people have never paid one penny available sugar content of that cane is of it in taxes, and no part of any other 7 per cent. The yield of cane in the fund has been diverted to that use. Everglades country, ascertained by forestalled in her tedious process, and The land is absolutely worthless in its striking an average on four hundred natural condition, and but for the and twenty acres for a number of hope that the state will reclaim it, years, is thirty-five tons of cane per no one would purchase it at any price. acre, and the average available sugar its value rests solely upon faith in the content of that cane is 8 per cent. ultimate success of the drainage pro- The entire Everglades region contains ject. If the work were abandoned about four million acres of land adthis faith would be gone, and values mirably adapted to the growing o would collapse. Therefore, the drain sugar cane, but we will eliminate all age scheme is self-supporting, and the except the four thousand square work is carried on with funds which miles covered by water, and which is would not be forthcoming for any purpose if the project were abandoned.

In order to drain the state's land it yield thirty-five tons of cane per acre, "John," she said, "I am going to New river, near Ft. Lauderdale, on is necessary to also drain large tracts with an average available sugar conthe Atlantic coast. After widening of private holdings, and the Board of tent of 8 per cent, the net production and deepening the river for a little Drainage Commissioners was created of sugar would be a little more than more than a mile, this dredge passed for the purpose of forcing private seven million tons, or enough to sup

country on the face of the globe.

this enormous production of sugar of a fittle more than twenty-five feet;
tepld water of this great lake, multiplied rapidly. These plants and grassas were of the nitrogen-fixing spacies so
that they took their food from both
air and water, and when they went to
the bottom in decay they deposited
upon he stone bed a thin layer of
black muck which was very rich in
nitrogen. The sluggish currents and
the winds of many centuries carried
enormous quantities of thick muck
and floating vegetation down into the
tortuous, rock-bound channels to the
southward, thus gradually choking
the waters of this inland sea.

No one knows just bow long this
process had continued when they
earth's crust on the eastern, southern
and western borders of the lake again
had ascertain, if we may, what it
of a little more than twenty-five feet;
There are numerous sand strata in its
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Banquets In Elizabeth's Time.

In Queen Elizabeth's time the first ourse of a banquet is given as wheatbroth, or smallage, gruel or hotch pot. The second consisted of fish, among which are lampreys, poor John, stockish and sturgeon, with side dishes of porpoise. The third course comprised making puddings, black puddings, bag ddings, white puddings and marrow puddings. Then came veal, beef, caties, Scotch collops, wild fowl and game. In the fifth course all kinds of weets, creams in all their varieties, custards, cheese cakes, jeilies, warden be followed perhaps by white cheese and tansy cake; for drinks, ale, beer. wine, sack and numerous varieties of mead or metheglin.-New York Trib-

John's Christmas Cake. The wife of a Los Angeles physician active in foreign missionary work of women of the congregation to contribval and bazaar. She consented to add her mite to the enterprise and called

send a cake over to the church to be sold, and I want you to bake it. You know all that the missionaries have done for your people in China and how glad you are that they have saved you from darkness. I want you to show your gratitude by making the nicest and biggest cake you can.'

The Chinaman got to work, and next church. He tied the package up so neatly that the physician's wife did not think it worth while to undo it to look it over. That afternoon she reof the women in charge of the festival saying there were doubts among the committee whether she would be satisfied to have the cake go into the bazaar in the condition in which it was

Much annoyed, the donor hurried ver to the church. The cake was large and savory. The icing was marked with colored sugar in elaborate and intricate designs of oriental art. Across the top also in large letters was the

"From Mrs. Jessop to Jesus."-New

Everybody's Nice. Obsequious is the barber's bow
When he gets through
His fussing o'er your raven hair.
On every side
You meet with truly leving care
At Christmastide.

The bootblack plies a busy which On unseen dirt, And every one is prempt and brisk



# EVERYBODY

#### CAN HAVEA HAND IN IT

We have done OUR part to make this the biggest and best Christmas EVER, and the finest sight in town is our beautiful stock of Christmas Gifts, containing all that is bright, fresh, new and novel in Holiday Goods.

### WHERE YOU COME IN

is in simply getting busy and making your Christmas selections from our wonderfully complete assortment of REALLY DESIR-ABLE GIFTS at the fairest and most reasonable prices.

### OU GET NEW IDEAS

as you look through our holiday stock. It is a practical demonstration of POSSIBILI-TIES in gathering under one roof nearly everything to make people happy at Christ-

#### PLENTY OF THE BEST

is here waiting for your inspection. To find a suitable selection is pastime; to price it is a pleasure; to possess it is a privilege. A visit to our store is a GUARANTEE of Popular Presents at Popular Prices.

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whatever your needs. Come and let us show you a variety of beautiful presents that will at once appeal to you as "Just the Thing." We have genuine New Attractions for Christmas and we want you to know it.

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It is a privilege to show our beautiful holiday goods, and you will oblige us by considering this a personal invitation to call and inspect our extensive and up-to-date line of Christmas Novelties.

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are waiting for you here in connection with a great variety of the Best Holiday Selections of the year, and our word of seasonable greeting to buyers of gifts is "A SQUARE DEAL" and A MERRY CHRISTMAS TO ALL.

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